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### NOTICE OF ALLOWANCE AND FEE(S) DUE

37013

7590

04/15/2009

ROSSI, KIMMS & McDOWELL LLP. 20609 Gordon Park Square, Suite 150 Ashburn, VA 20147 EXAMINER
PAUL, DISLER
ART UNIT PAPER NUMBER

2614

DATE MAILED: 04/15/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572.831	03/22/2006	Yusuke Konagai	YAMA:120	9261

TITLE OF INVENTION: AUDIO CHARACTERISTIC CORRECTION SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/15/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifica	correspondence including ed below or directed other tions	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of an appecifying a new corresponding to the corr	maintenance fees wi spondence address;	ll be mailed to the curren and/or (b) indicating a sep	t correspondence address as parate "FEE ADDRESS" for
		ock 1 for any change of address)	Fee pap	(s) Transmittal. This ers. Each additional	certificate cannot be used	or domestic mailings of the for any other accompanying ent or formal drawing, must
37013 7590 04/15/2009  ROSSI, KIMMS & McDOWELL LLP. 20609 Gordon Park Square, Suite 150 Ashburn, VA 20147			I he Stat add tran	Certi reby certify that this es Postal Service wi ressed to the Mail smitted to the USPT	ficate of Mailing or Tran Fee(s) Transmittal is bein th sufficient postage for fi Stop ISSUE FEE address O (571) 273-2885, on the	smission  g deposited with the United  rst class mail in an envelope  above, or being facsimile  date indicated below.
						(Depositor's name)
			<u> </u>			(Signature)
	_					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/15/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	J		
PAUL, I	DISLER	2614	381-001000			
<ul> <li>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>1. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>1. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ul>			or agents OR, alternati (2) the name of a singl registered attorney or 2 registered patent attor listed, no name will be	nes of up to 3 registered patent attorneys  R, alternatively,  ne of a single firm (having as a member a attorney or agent) and the names of up to d patent attorneys or agents. If no name is ame will be printed.		
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	(B) RESIDENCE: (CITY	atent. If an assigned assignment.  7 and STATE OR CO	OUNTRY)	document has been filed for
Please check the appropr	iate assignee category or		<u> </u>			coup entity Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			A check is enclosed.  Payment by credit car	rd. Form PTO-2038 y authorized to charg	e the required fee(s), any d	
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ROSSI, KIMMS	S & McDOWELL LL	PAUL, DISLER			
	rk Square, Suite 150		ART UNIT	PAPER NUMBER	
Ashburn, VA 20147			2614		
			DATE MAILED: 04/15/2009		

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 80 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 80 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	   10/572,831	KONAGAI ET AL.
Notice of Allowability	Examiner	Art Unit
	DISLER PAUL	2614
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included inication will be mailed in due course. <b>THIS</b>
2. The allowed claim(s) is/are <u>1-3;6-7</u> .		
3.	e been received.  been received in Application cuments have been received of this communication to file IENT of this application.  itted. Note the attached EXA as reason(s) why the oath or set be submitted.  son's Patent Drawing Review of Amendment / Comment or as Amendment / Comment	n No  If in this national stage application from the a reply complying with the requirements  MINER'S AMENDMENT or NOTICE OF declaration is deficient.  If (PTO-948) attached  in the Office action of the drawings in the front (not the back) of R 1.121(d).  ERIAL must be submitted. Note the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./l 7. ☐ Examiner's	formal Patent Application ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance -·

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### **DETAILED ACTION**

# Allowable Subject Matter

- 1. Claims 1-3; 6-7 are allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter: regarding independent claims 1, 2, None of the prior art of record disclose of the specific wherein the array speaker includes a delay circuit and a plurality of directional speakers arranged in and the characteristic correction control device sends a plurality of prescribed directivity control coefficients to the delay circuit, wherein the delay circuit changes delay times applied to the audio signal supplied to the directional speakers based on the directivity control coefficients to emit a plurality number of sounds each having a different focal position so that the plurality number of sounds reflect off of different areas of the wall surface or the sound reflection board and wherein the characteristic correction control device receives and stores measurement results based on the sounds picked up by the sound pickup device regarding characteristics of the plurality number of sounds in relation to the directivity control coefficients and wherein the characteristic correction control device selects one of the plurality of directivity control coefficients based on the stored measurement results to control the directivity of the speakers.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DISLER PAUL whose telephone number is (571)270-1187. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin Vivian can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. P./ Examiner, Art Unit 2614

/Vivian Chin/ Supervisory Patent Examiner, Art Unit 2614